

LISTING OF THE CLAIMS

This listing of the claims will replace all prior versions, and listings, of claims in the application.

Please cancel claims 2 and 61-82 without prejudice.

Claims 1, 3, 14, 52, 56 and 58 are amended as set forth below.

Claim 1 (Currently amended): A device comprising a substrate having a plurality of different molecular probes attached to a surface; thereof and an integrated indicator that exhibits a detectable response when exposed to a condition to which the ~~substrate~~ device may be exposed, wherein each different molecular probe is selected to interact with a corresponding target, and further wherein the indicator continues to exhibit the detectable response ~~is detectable~~ for at least one minute after removing the ~~indicator~~ device from the condition.

Claim 2 (canceled).

Claim 3 (Currently amended): The device of claim ~~2~~ 1, wherein the indicator response to the condition is detectable for at least 1 hour after removing the ~~substrate~~ device from the condition.

Claim 4 (Original): The device of claim 3, wherein the indicator response to the condition is substantially permanently detectable.

Claim 5 (Original): The device of claim 1, wherein the condition is an environmental condition that allows for target-probe interaction.

Claim 6 (Withdrawn): The device of claim 5, wherein the environmental condition is a predetermined temperature.

Claim 7 (Withdrawn): The device of claim 6, wherein the predetermined temperature is a maximum temperature.

Claim 8 (Withdrawn): The device of claim 7, wherein the maximum temperature is about 60°C to about 90°C.

Claim 9 (Withdrawn): The device of claim 6, wherein the predetermined temperature is a minimum temperature.

Claim 10 (Withdrawn): The device of claim 9, wherein the minimum temperature is about 35°C to about 45°C.

Claim 11 (Withdrawn): The device of claim 5, wherein the environmental condition is a predetermined water content.

Claim 12 (Original): The device of claim 5, wherein the environmental condition is a chemical concentration.

Claim 13 (Original): The device of claim 12, wherein the chemical concentration is a formamide concentration.

Claim 14 (Currently amended): The device of claim 12, wherein the pH of the chemical concentration ~~comprises a pH~~ is in the range of about 5 to about 9.

Claim 15 (Original): The device of claim 12, wherein the chemical concentration is a salinity of about 0.01 molar to about 8 molar.

Claim 16 (Original): The device of claim 1, wherein the condition is the presence of a chemical moiety that affects the target-probe interaction.

Claim 17 (Original): The device of claim 16, wherein the chemical moiety hinders the target-probe interaction.

Claim 18 (Original): The device of claim 16, wherein the chemical moiety enhances the target-probe interaction.

Claim 19 (Original): The device of claim 1, wherein the indicator response is optically detectable.

Claim 20 (Original): The device of claim 19, wherein the indicator response is detectable as fluorescence emission.

Claim 21 (Original): The device of claim 19, wherein the indicator response is detectable as fluorescence quenching.

Claim 22 (Original): The device of claim 19, wherein the indicator is chemiluminescent and the response is detectable as chemiluminescence.

Claim 23 (Original): The device of claim 1, wherein the indicator response is magnetically detectable.

Claim 24 (Original): The device of claim 1, wherein the indicator response is electrically detectable.

Claim 25 (Original): The device of claim 1, wherein the indicator response is machine detectable.

Claim 26 (Original): The device of claim 1, wherein the response occurs after exposure of the indicator to the condition for at least a predetermined period.

Claim 27 (Original): The device of claim 24, wherein the predetermined period is about 1 minute to about 28 hours.

Claim 28 (Original): The device of claim 25, wherein the predetermined period is about 5 to about 10 hours.

Claim 29 (Original): The device of claim 26, wherein the predetermined period is about 6 to about 8 hours.

Claim 30 (Original): The device of claim 1, wherein the molecular probes are biomolecular.

Claim 31 (Withdrawn): The device of claim 28, wherein the molecular probes are nucleotidic.

Claim 32 (Original): The device of claim 28, wherein the molecular probes are peptidic.

Claim 33 (Withdrawn): The device of claim 28, wherein the molecular probes are oligomeric.

Claim 34 (Withdrawn): The device of claim 28, wherein the molecular probes are polymeric.

Claim 35 (Original): The device of claim 1, wherein the molecular probes are arranged in an array on the substrate surface.

Claim 36 (Original): The device of claim 35, wherein the array comprises at least about 10 probes per square centimeter of substrate surface.

Claim 37 (Original): The device of claim 36, wherein the array comprises at least about 50,000 probes per square centimeter of substrate surface.

Claim 38 (Original): The device of claim 37, wherein the array comprises at least about 200,000 probes per square centimeter of substrate surface.

Claim 39 (Original): The device of claim 38, wherein the array comprises at least about 1,000,000 probes per square centimeters of substrate surface.

Claim 40 (Original): The device of claim 1, wherein the substrate further contains machine-readable information.

Claim 41 (Original): The device of claim 40, wherein the substrate further comprises a medium on which information may be written.

Claim 42 (Original): The device of claim 41, wherein the medium is selected to contain electronic information.

Claim 43 (Original): The device of claim 41 wherein the medium is noncoplanar with respect to the surface on which the molecular probes are attached.

Claim 44 (Original): The device of claim 43, wherein the medium is writable from a surface that opposes the surface on which the molecular probes are attached.

Claim 45 (Withdrawn): The device of claim 1, wherein the substrate comprises a disk.

Claim 46 (Withdrawn): The device of claim 1, wherein the substrate comprises a tape.

Claim 47 (Original): The device of claim 1, wherein the substrate comprises a well plate.

Claim 48 (Withdrawn): The device of claim 1, wherein the substrate comprises a slide.

Claim 49 (Original): The device of claim 1, wherein the targets represent portions of a single molecule.

Claim 50 (Original): The device of claim 1, wherein the targets represent portions of single cell.

Claim 51 (Original): The device of claim 1, wherein the integrated indicator comprises nucleotidic material.

Claim 52 (Currently amended): A device comprising a substrate having a plurality of molecular probes attached to a surface thereof and a plurality of different integrated indicators, each indicator selected to exhibit a detectable response when exposed to one of a plurality of conditions to which the ~~substrate~~ device may be exposed, wherein the molecular probes are selected to interact with corresponding targets, and further wherein each indicator continues to exhibit the detectable response of each indicator is detectable for at least one minute after removing ~~each~~ the indicator from the condition.

Claim 53 (Original): The device of claim 50, wherein the molecular probes are selected to interact with corresponding targets when exposed to at least one of the plurality of conditions.

Claim 54 (Original): The device of claim 51, wherein the molecular probes are selected to interact with corresponding targets when exposed to all of the conditions.

Claim 55 (Original): The device of claim 52, wherein the molecular probes are selected to interact with corresponding targets when exposed to all of the conditions simultaneously.

Claim 56 (currently amended) A device comprising a substrate having a plurality of nucleotidic molecular probes attached to a surface thereof and an integrated indicator that exhibits a detectable response when exposed to a condition to which the ~~substrate~~ device may be exposed, wherein the nucleotidic molecular probes are selected to interact with corresponding targets, and further wherein the indicator continues to exhibit the detectable response is detectable for at least one minute after removing the ~~indicator~~ device from the condition.

Claim 57 (Original): The device of claim 54, wherein the condition represents a hybridization condition between the probes and targets.

Claim 58 (currently amended): A device comprising a substrate having a surface adapted for attachment to a plurality of molecular moieties and an integrated indicator that exhibits a detectable response when exposed to a condition, wherein the indicator continues to exhibit the

detectable response ~~is detectable~~ for at least one minute after removing the ~~indicator~~ device from the condition.

Claim 59 (Original): The device of claim 56, wherein the condition is suitable for attaching the plurality of molecular moieties to the substrate surface.

Claim 60 (Original): The device of claim 56, wherein the condition is not suitable for attaching the plurality of molecular moieties to the substrate surface.

Claim 61-82 (canceled).